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Product Datasheet

Recombinant Human PRDX1 (N, C-6His)
EBT-EPT198

Article Name	Recombinant Human PRDX1 (N, C-6His)
Biozol Catalog Number	EBT-EPT198
Supplier Catalog Number	EPT198
Alternative Catalog Number	EBT-EPT198-50
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Recombinant Human Peroxiredoxin-1 is produced by our E.coli expression system and the target gene encoding Met1-Lys199 is expressed with a 6His tag at the N-terminus, 6His tag at the C-terminus....
Molecular Weight	Molecular weight: 25.3 KDa. Apparent molecular weight: 26 KDa, reducing conditions
UniProt	Q06830
Purity	Greater than 95% as determined by reducing SDS-PAGE.

Application Notes	Endotoxin: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test. Background: Peroxiredoxin-1(PRDX1) contains 1 thioredoxin domain and belongs to the AhpC/TSA family. PRDX1 constitutively expressed in most human cells and it is induced to higher levels upon serum stimulation in untransformed and transformed cells. PRDX1 is involved in redox regulation of the cell. It reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin and play an important role in eliminating peroxides generated during metabolism. PRDX1 might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H2O2. It reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation. It may contribute to the antiviral activity of CD8(+) T-cells and have a proliferative effect in cancer development or progression